

Serial No. 10/803,411  
Response to Office Action  
Mailed September 27, 2005

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**Amendments to the Specification**

**Please replace paragraph 3 on page 1 with the following amended paragraph 3:**

[0001] U.S. Provisional Pat. Application Ser. No. [[ \_\_\_\_\_ ]] 60/554,188, "Non-intrusive energy sensor with wireless communications", (Attorney Ref. No. 6270/116).

**Please replace paragraph 50 on page 10 with the following amended paragraph 50:**

[0050] When the microcontroller 911 drives line GP4 low (approximately 0VDC in the illustrated example), shunt regulator 917 turns transistor 918 off. Deactivation of transistor 918 in turn deactivates the MOSFET 905 by applying about 0VDC to the gate of the MOSFET 905 in the illustrated example. When the MOSFET 905 is turned off (or open), and is non-conducting, virtually all current from the bridge rectifier 947 flows ~~through~~<sup>through</sup> diode 916. Microcontroller 911 may selectively ~~switches~~<sup>switched</sup> line GP4 between high and low states to maintain regulation of a supply rail 922, as will be described herein. The switching of the MOSFET 905 between an on state (conducting) and an off state (non-conducting), or an open and a closed state, is referred to as the switched regulation mode. Those skilled in the art will appreciate that the term "on" or "closed" means that a relatively large, or a maximum, amount of current flows through the device while the term "off" or "open" means that a relatively small, or a minimum, amount of current flows through the device.